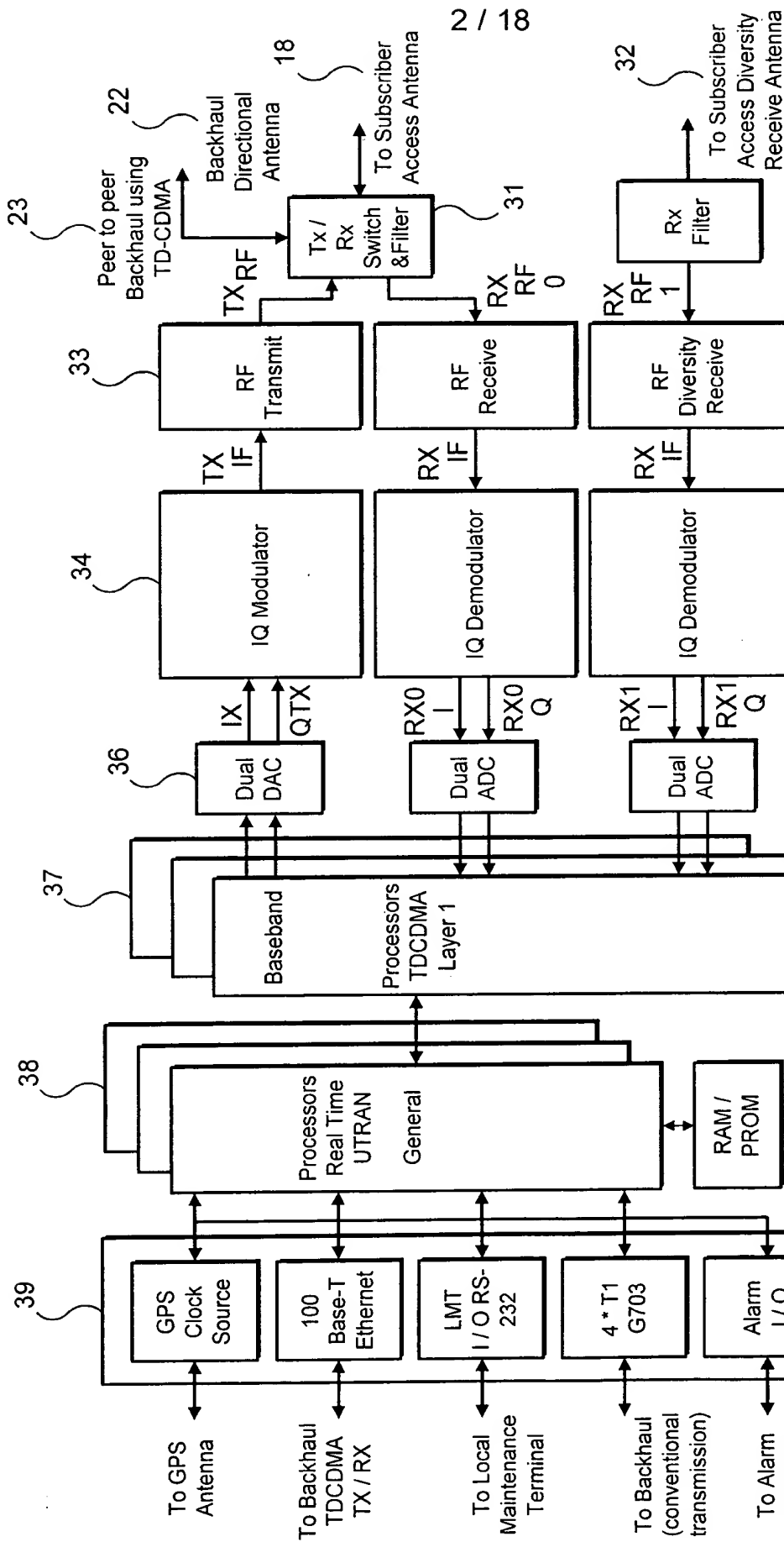
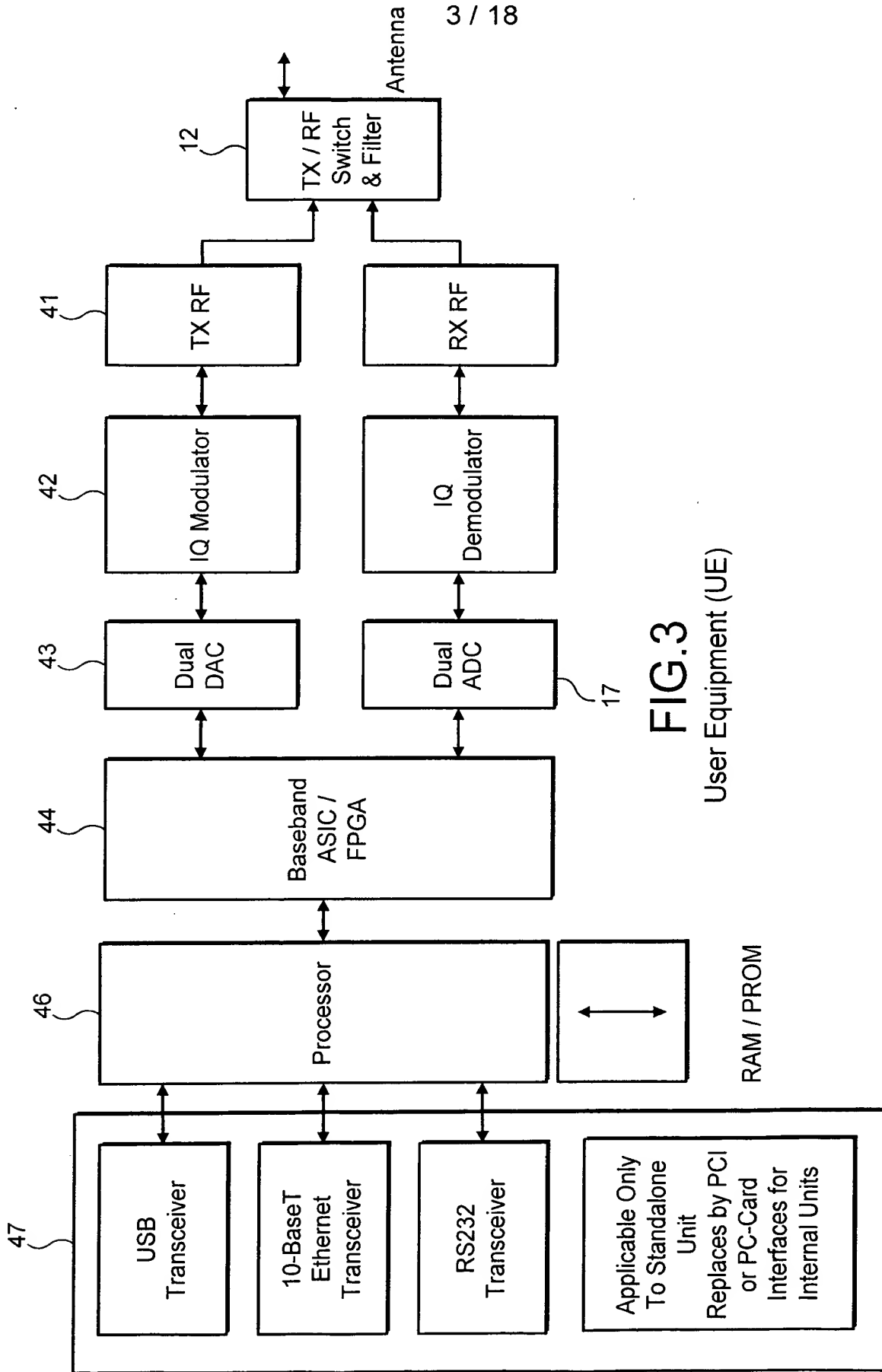


FIG.1

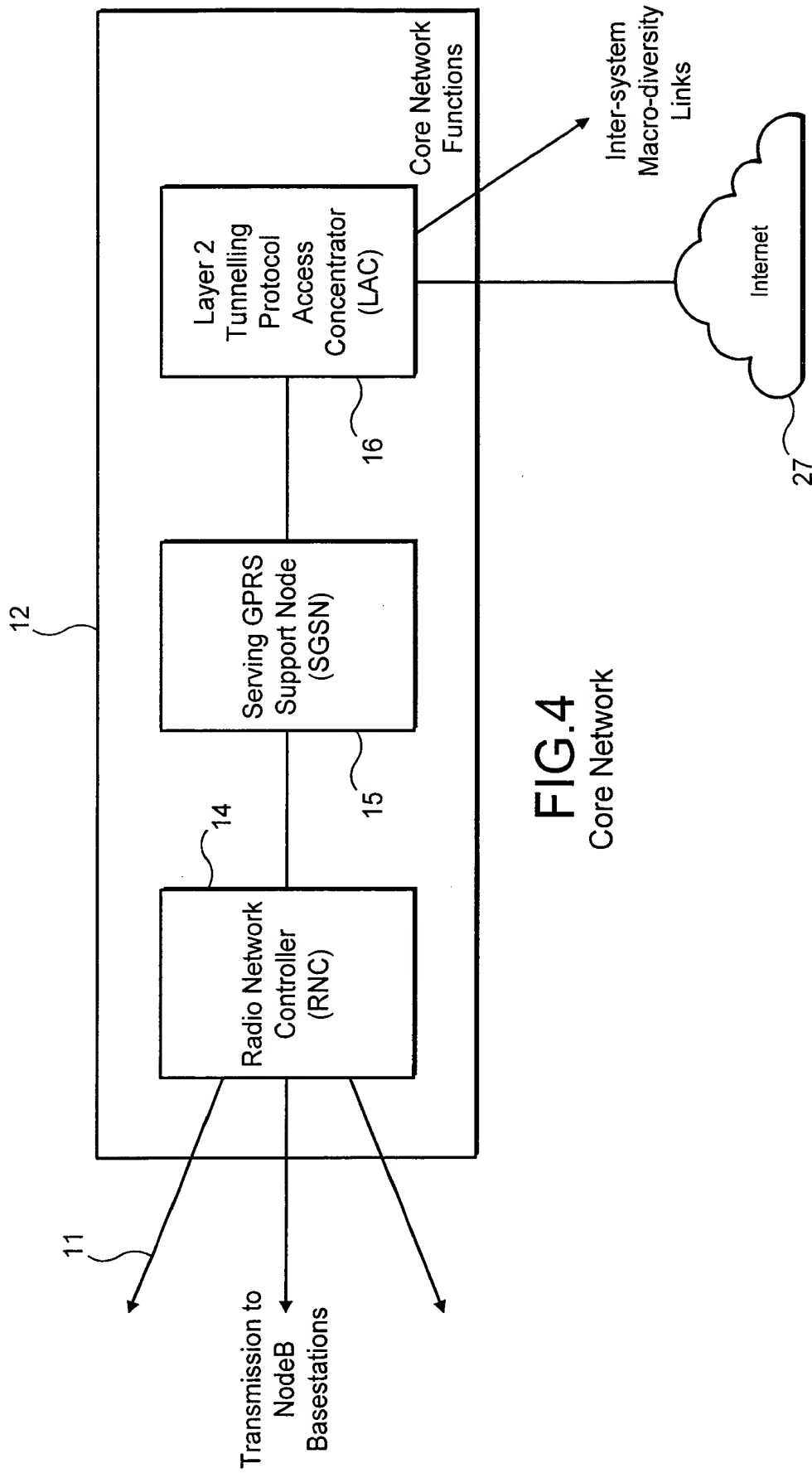
System Architecture



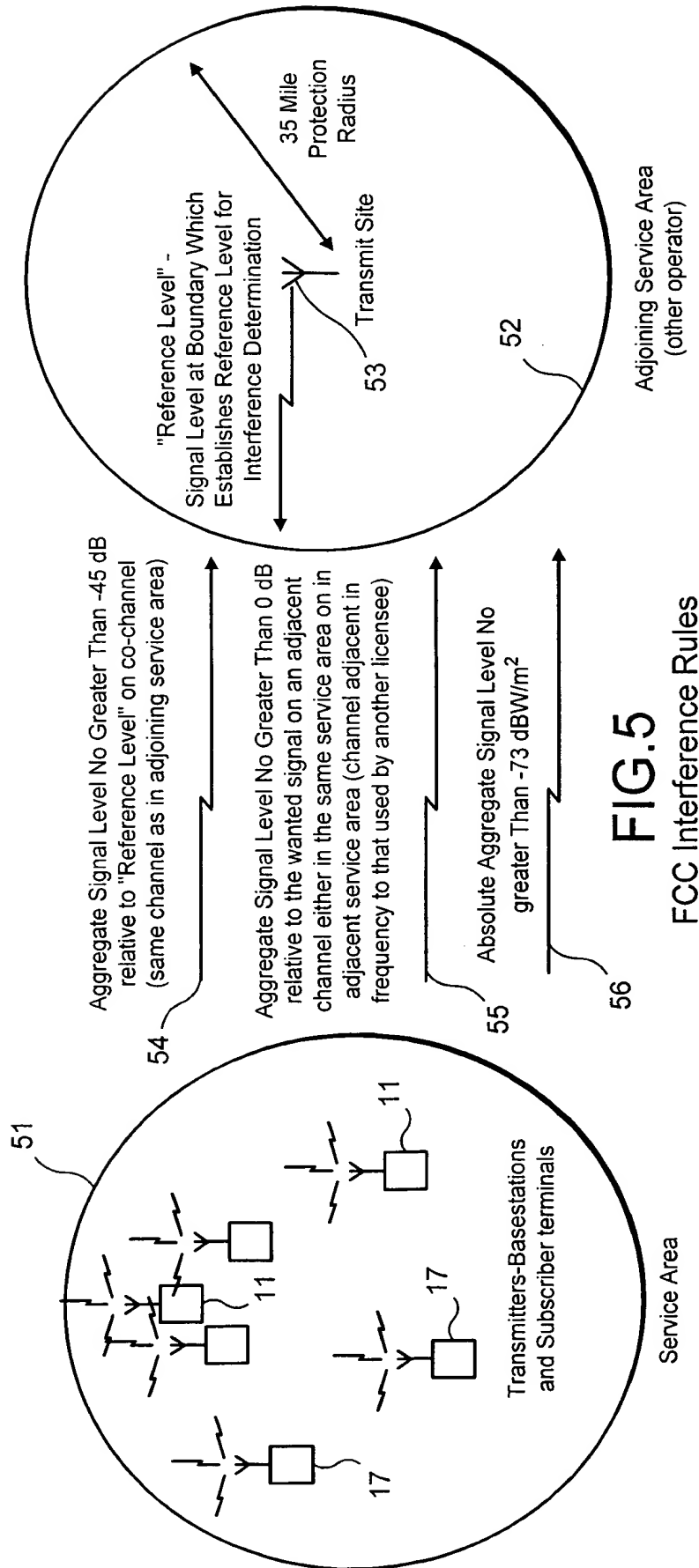
**FIG.2**  
Basestation (NodeB)



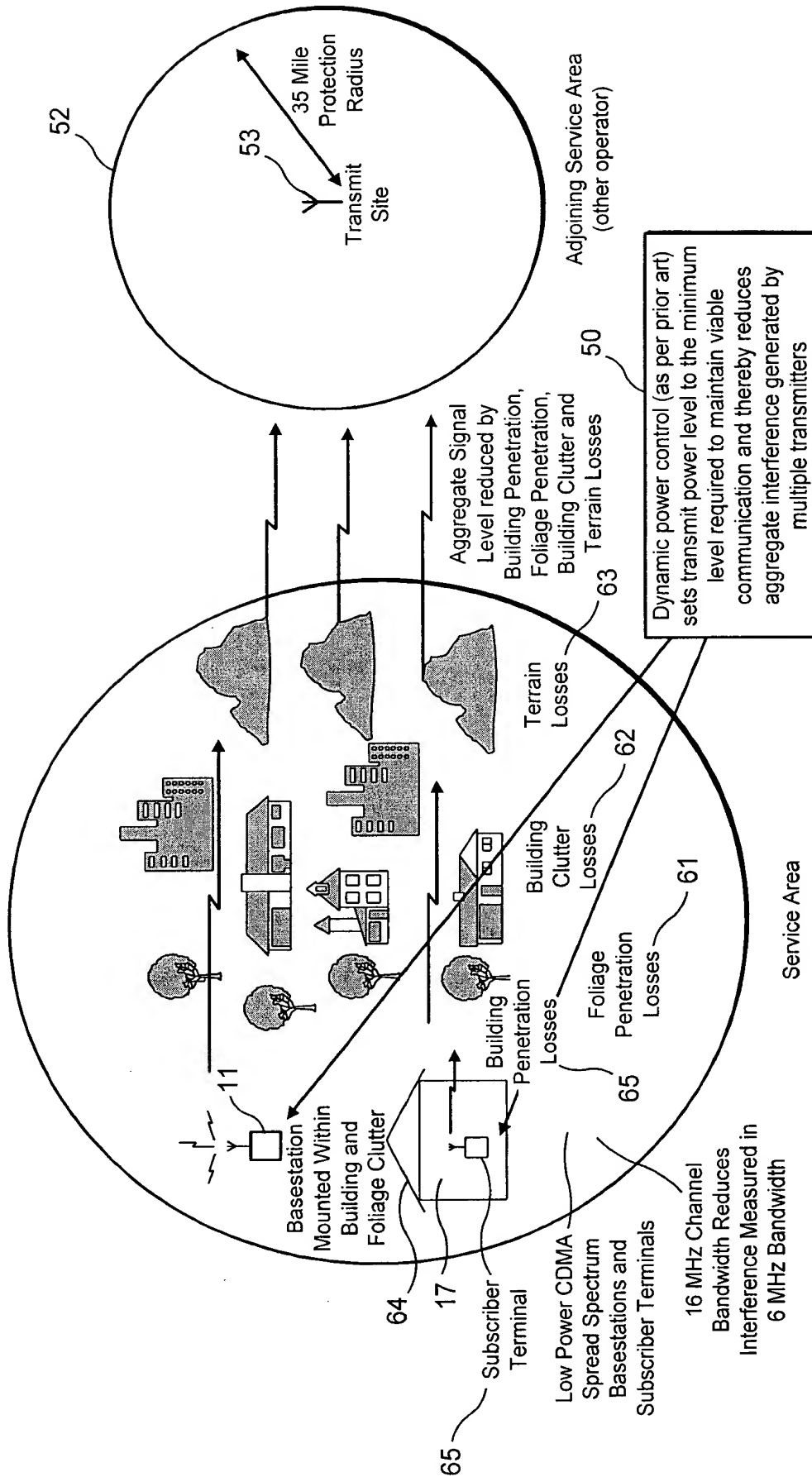
**FIG.3**  
User Equipment (UE)



**FIG. 4**  
Core Network



**FIG.5**  
FCC Interference Rules



**FIG.6**  
Interference Avoidance

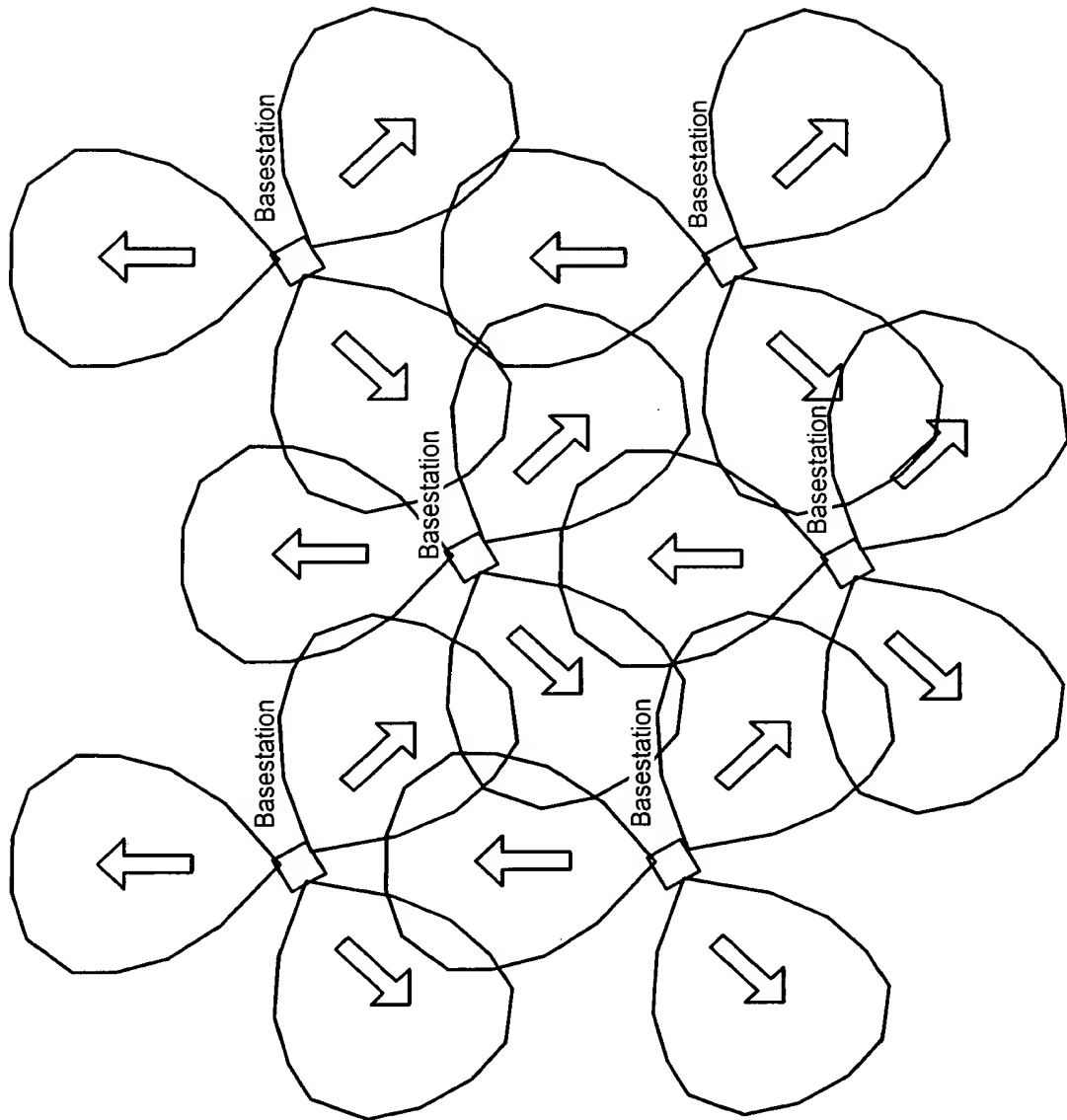
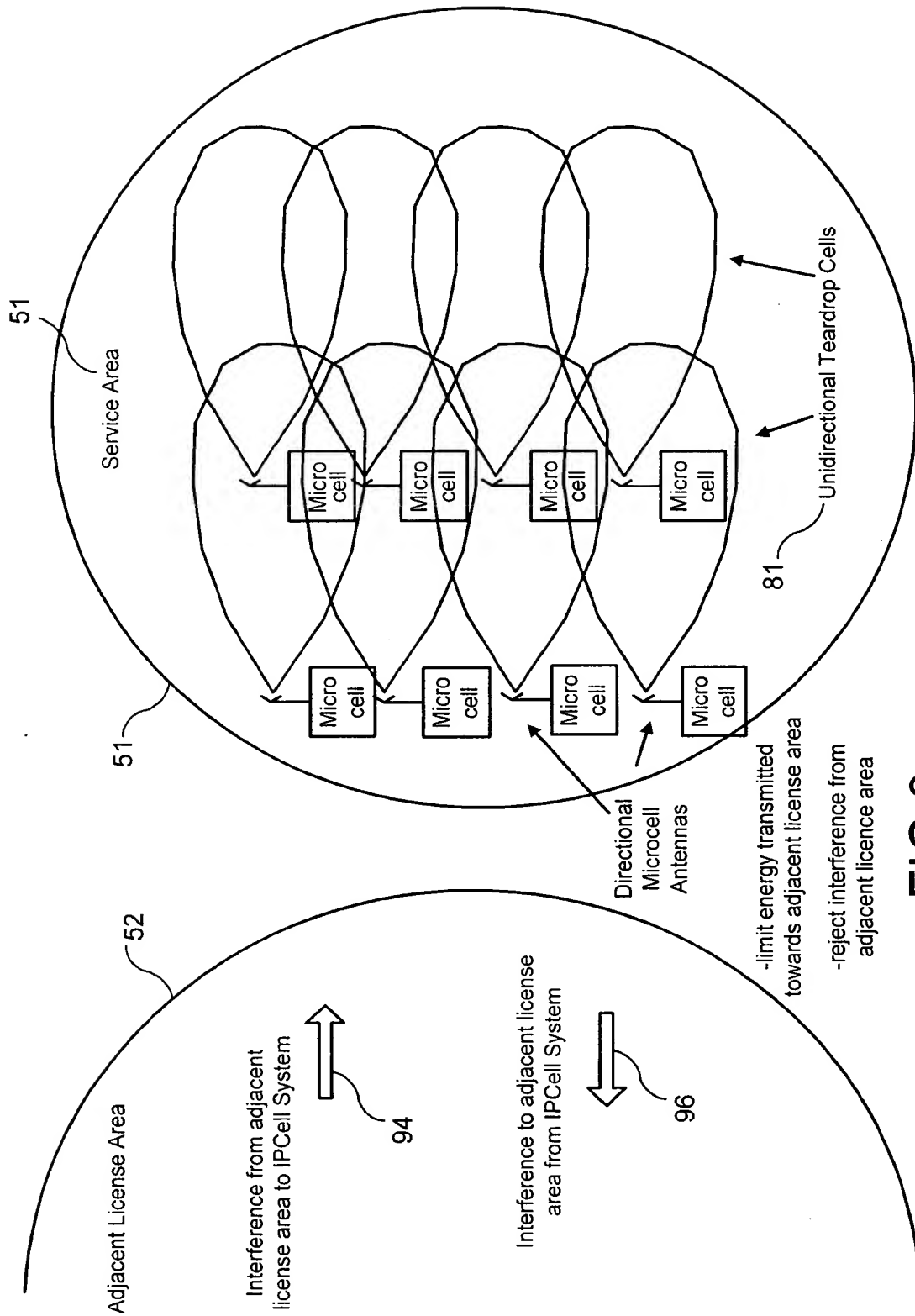


FIG.7

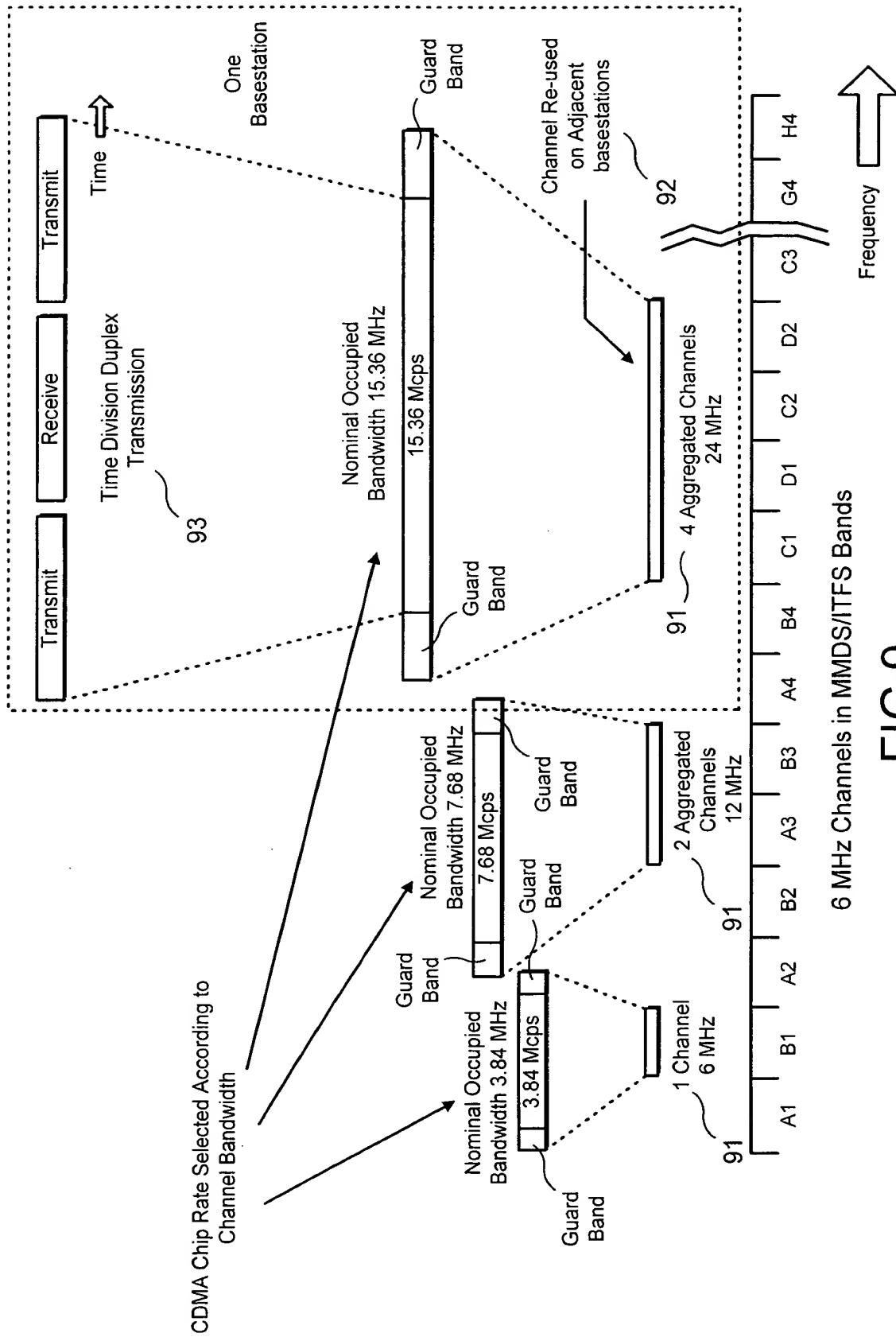
Prior Art:- Typical Cellular Wireless Coverage Pattern



**FIG.8**

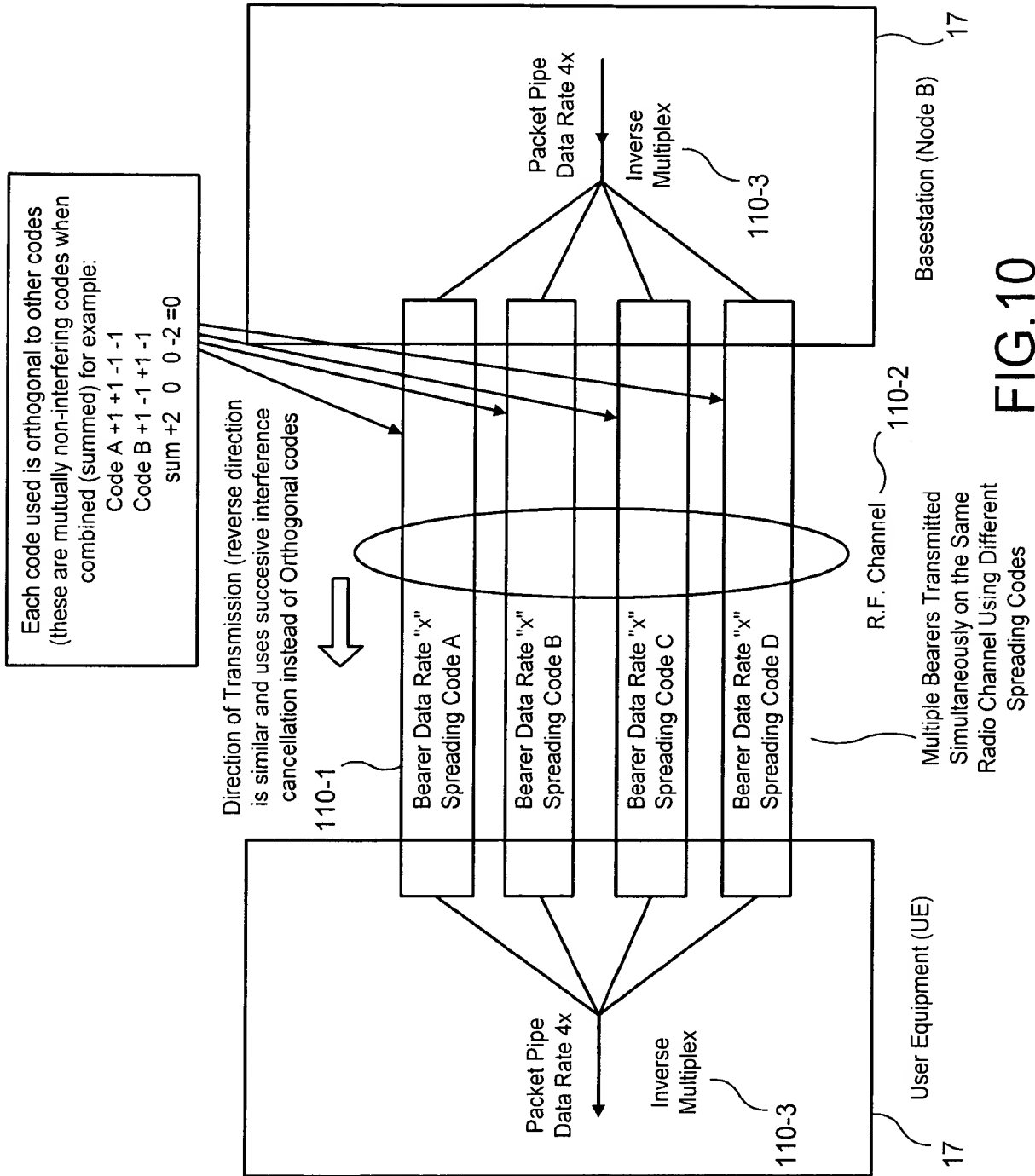
Interference Reduction - Unidirectional Teardrop  
Cellular Wireless Coverage Pattern





**FIG.9**

RF Channel Utilization



**FIG.10**

Multiple Bearer Transmission

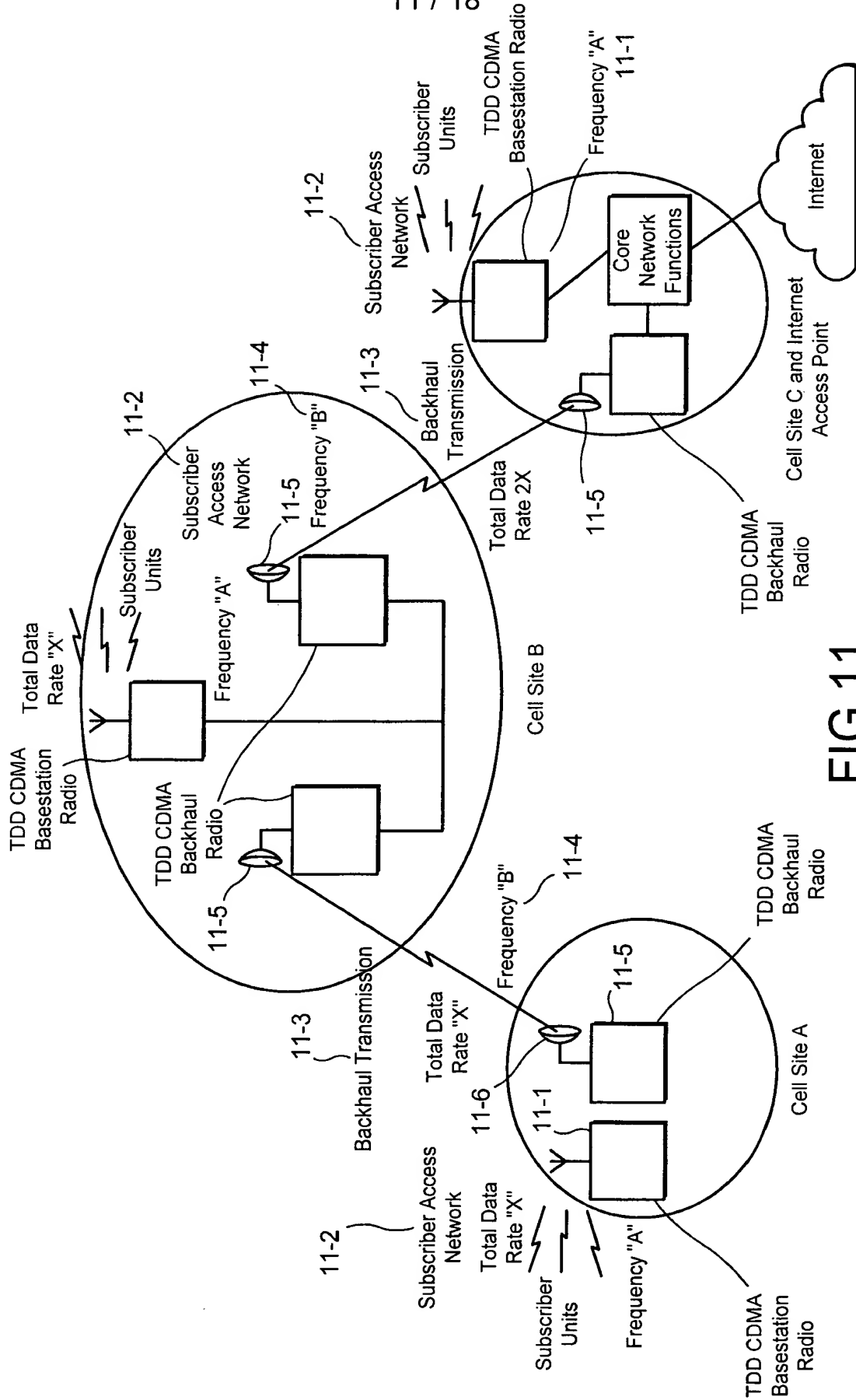


FIG. 11

CDMA Backhaul Transmission

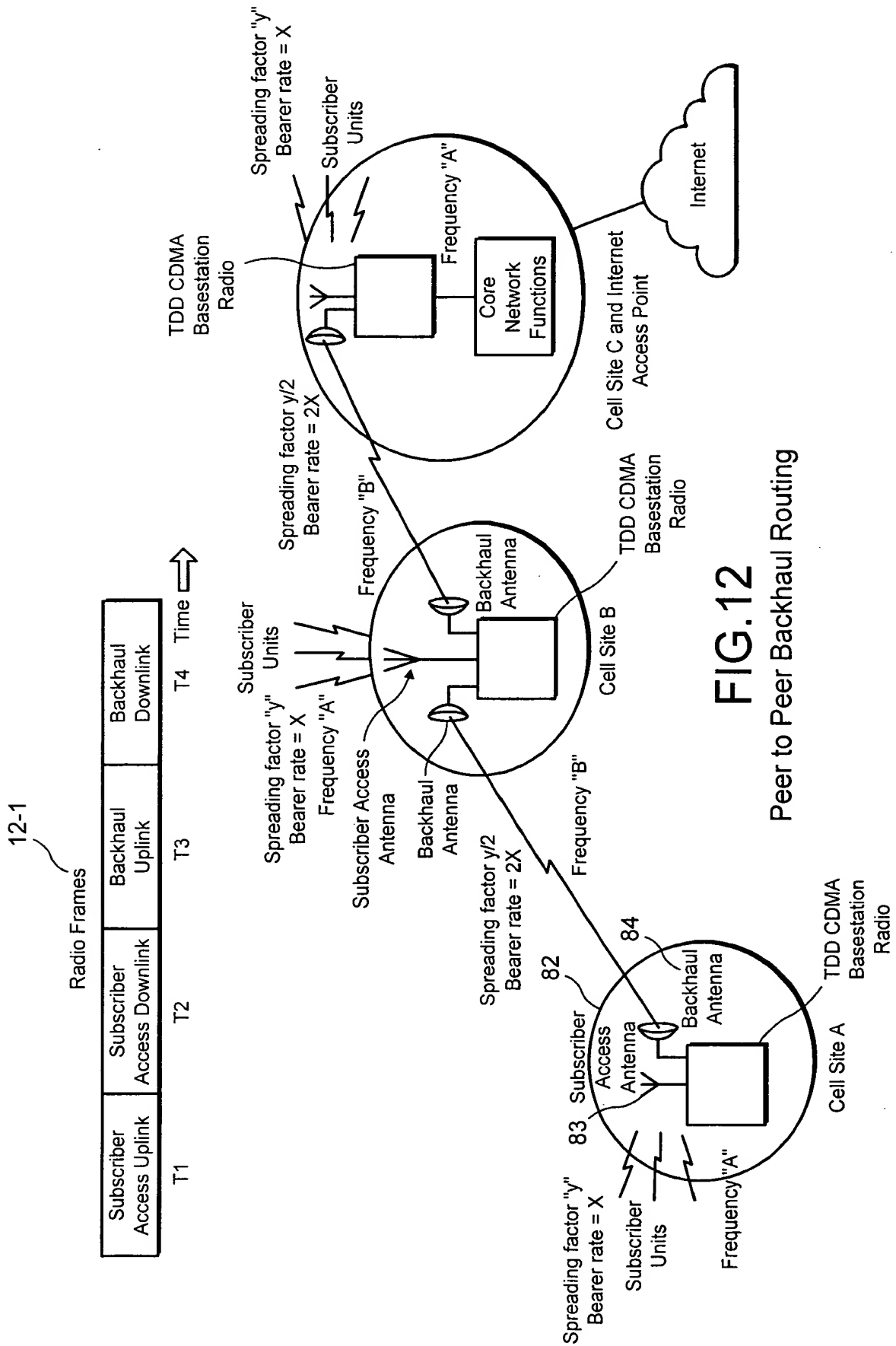


FIG.12

Peer to Peer Backhaul Routing

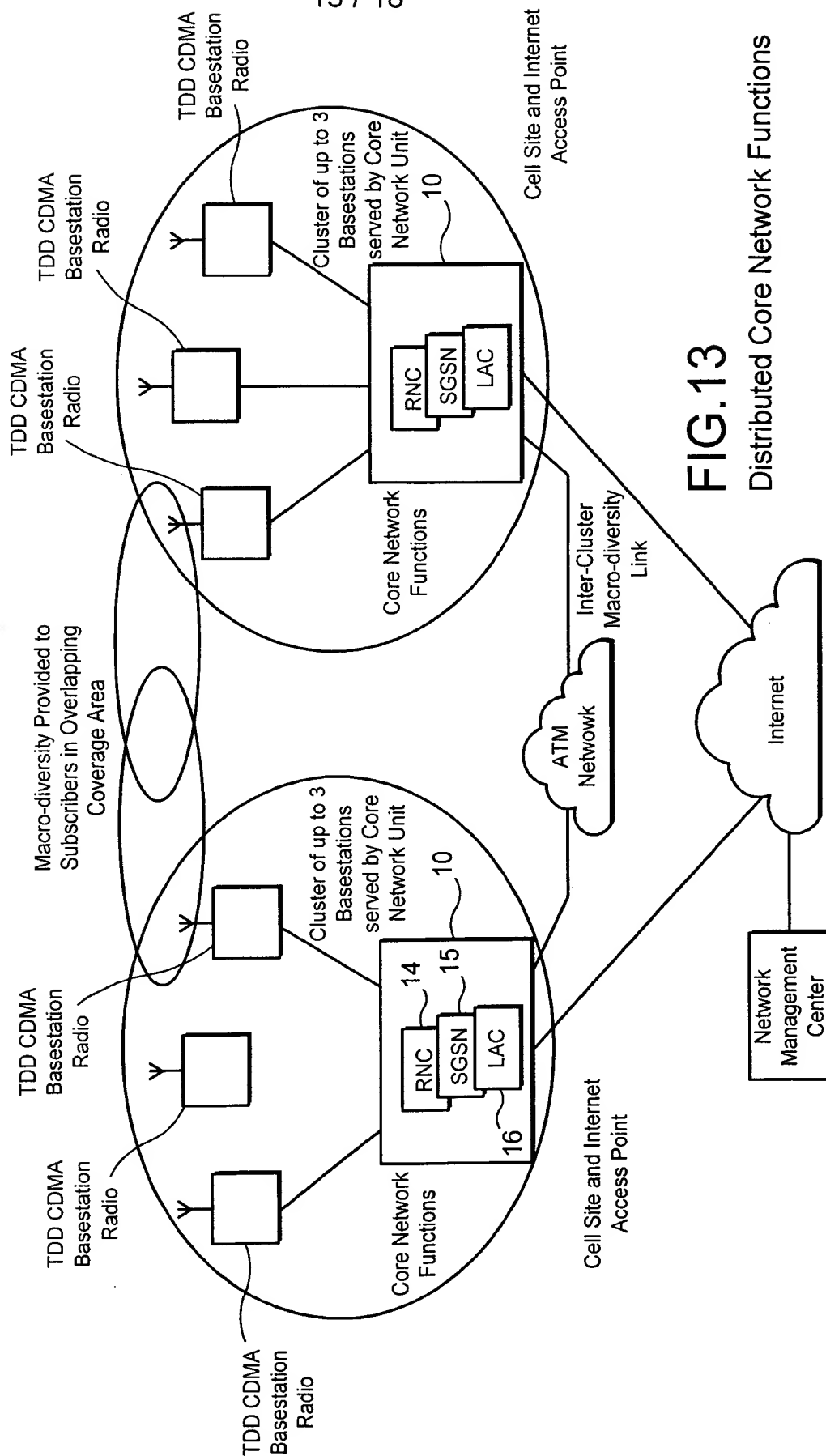
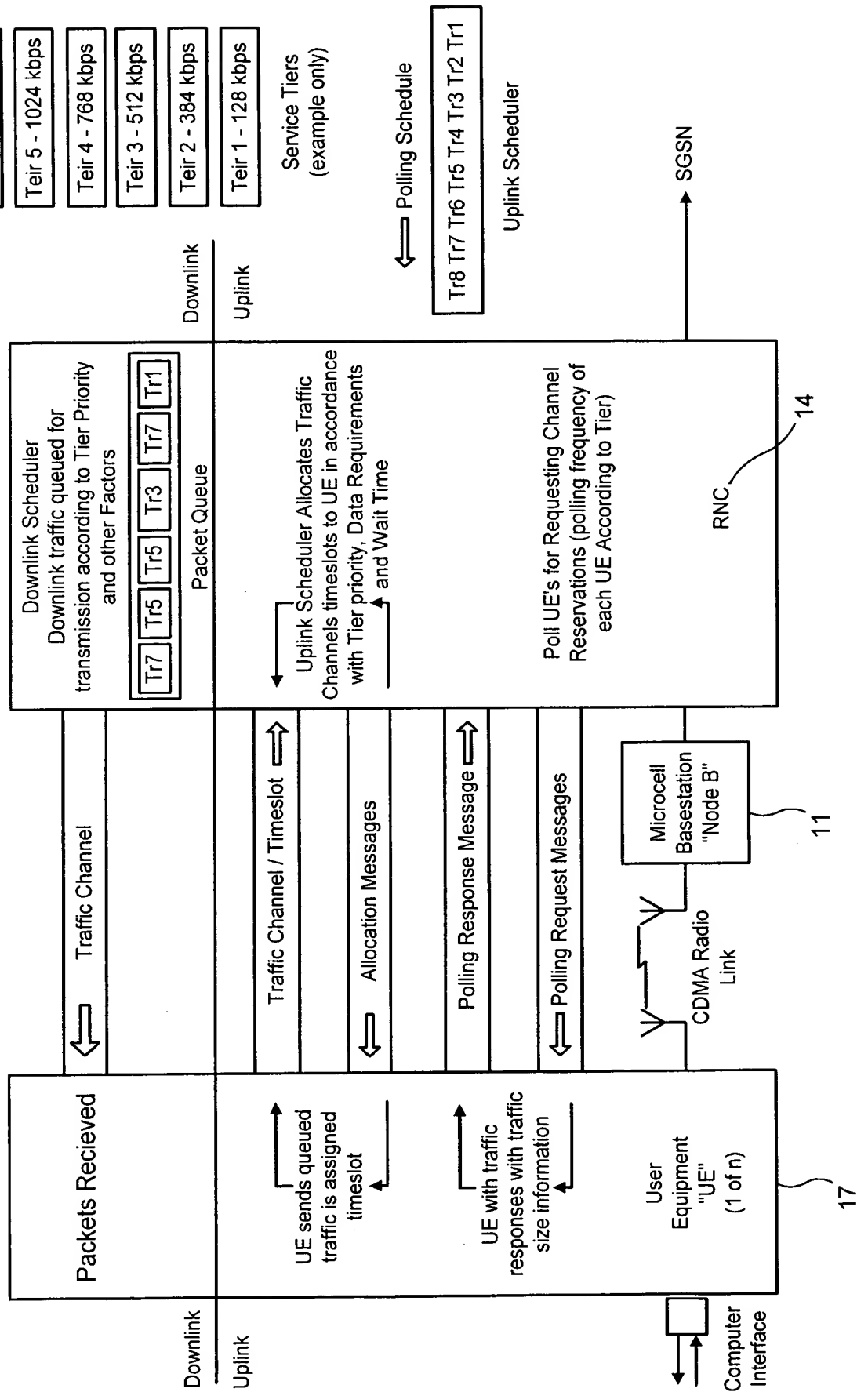


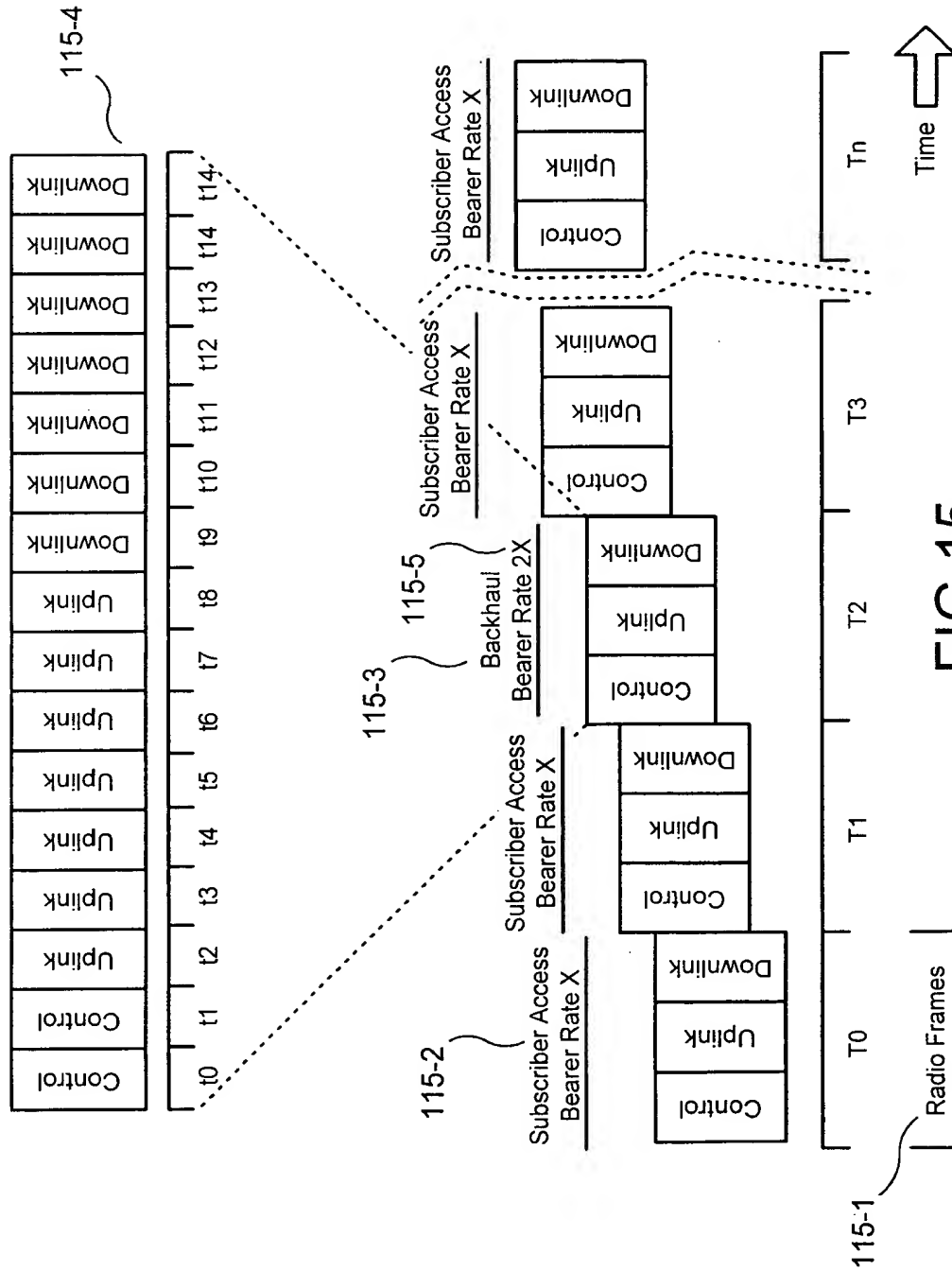
FIG.13

Distributed Core Network Functions

# FIG. 14

## Service Tiering





**FIG. 15**

Enhanced Time-Division-Duplex

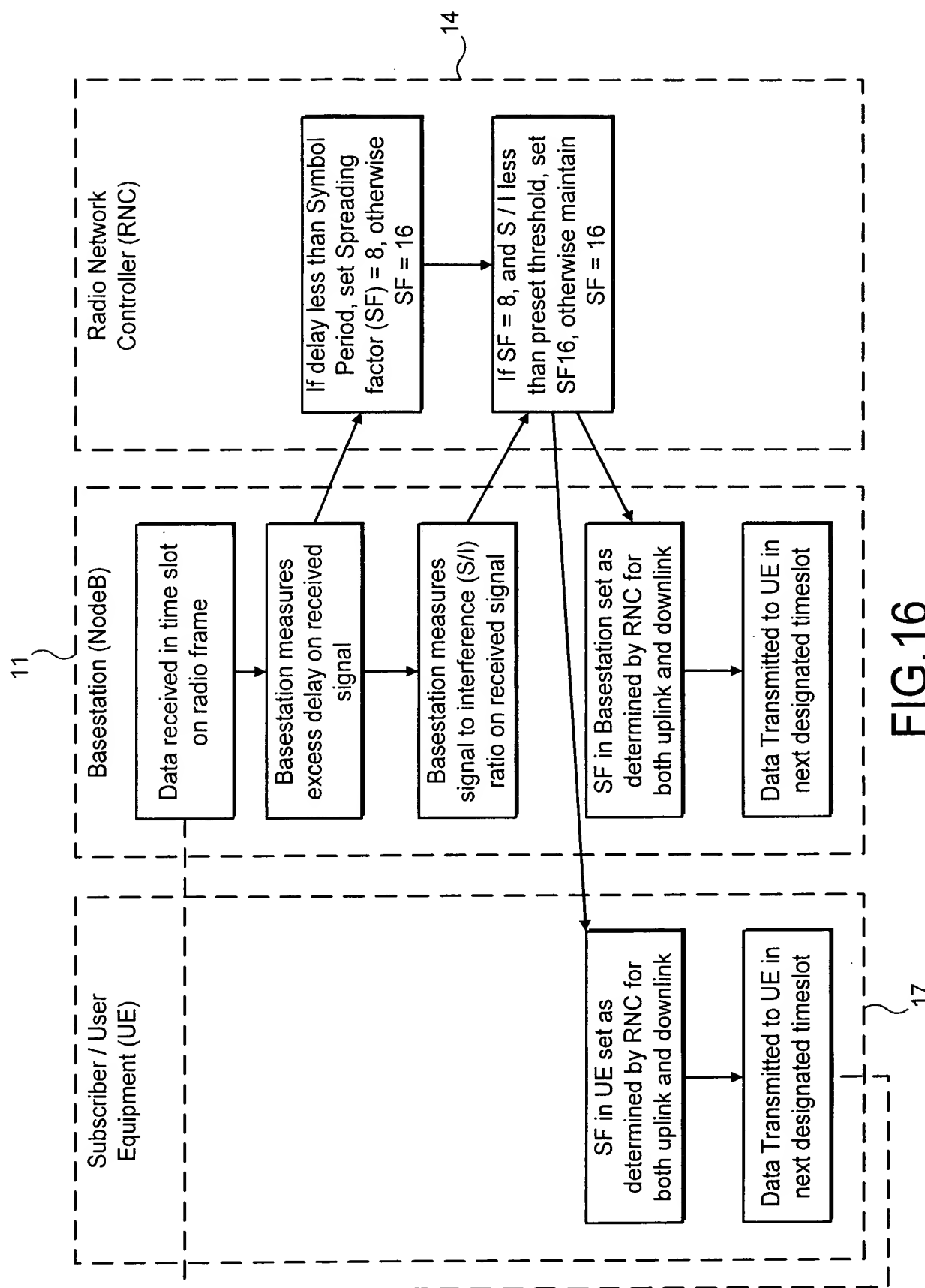
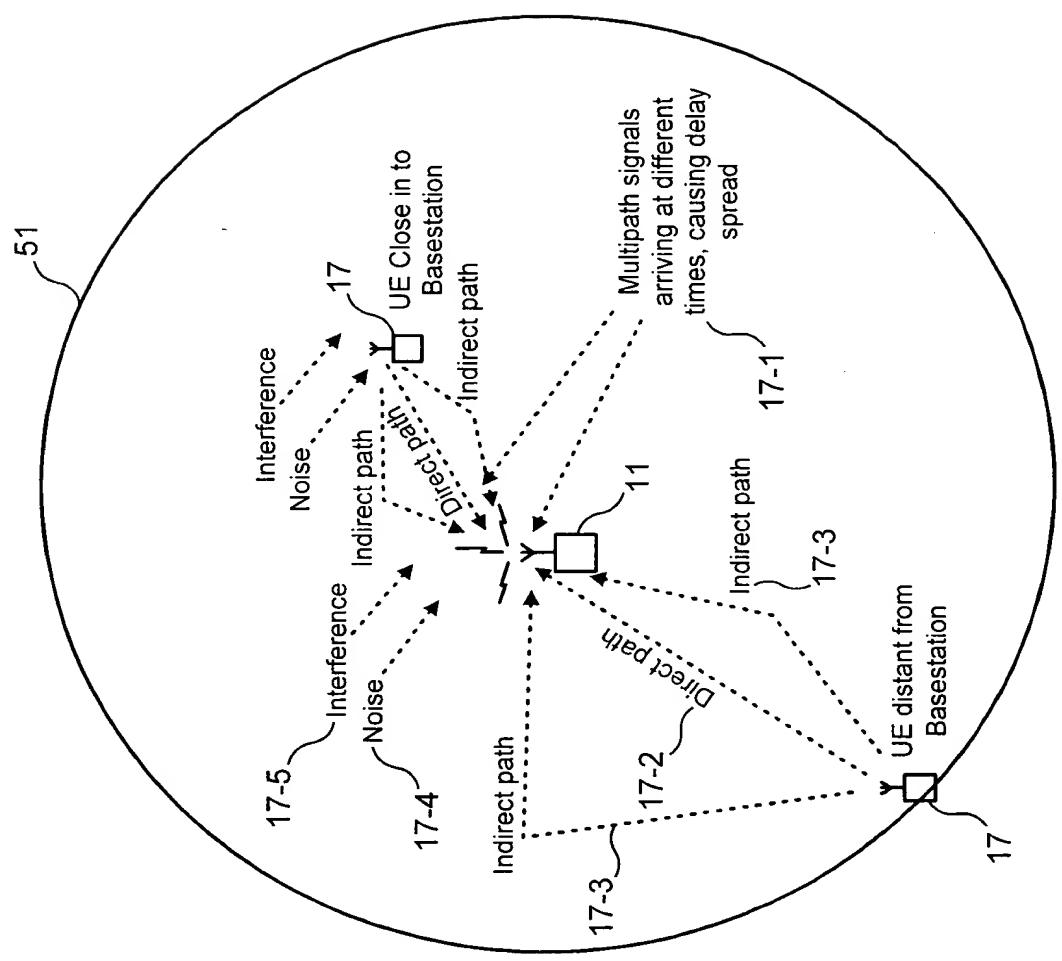


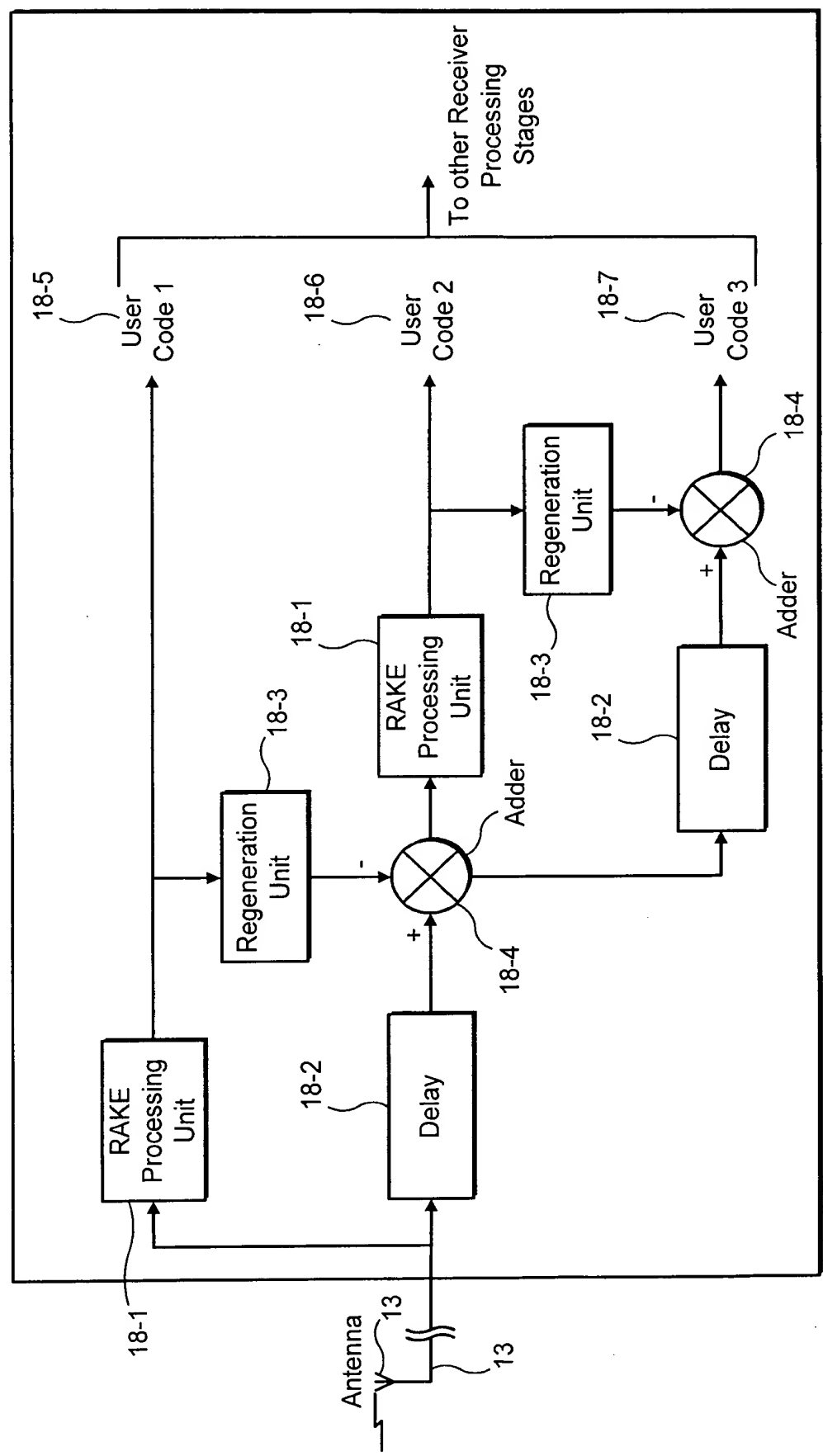
FIG.16

Transmission Rate Adaption





**FIG.17**  
Transmission Rate Adaption Channel Measurement



**FIG.18**  
Successive Interference Cancellation